



16878 - Determining the coma contents of the incoming Oort Cloud comet C/2014

UN271

Cycle: 29, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) C2014UN271	WFC3/UVIS	2	14-Sep-2022 16:02:17.0	yes
02	(2) C2014UN271-VIS2	WFC3/UVIS	2	14-Sep-2022 16:02:19.0	yes
03	(3) C2014UN271-VIS3	WFC3/UVIS	2	14-Sep-2022 16:02:21.0	yes
53	(3) C2014UN271-VIS3	WFC3/UVIS	2	14-Sep-2022 16:02:23.0	yes
54	(4) C2014UN271-VIS4	WFC3/UVIS	2	14-Sep-2022 16:02:25.0	yes
55	(5) C2014UN271-VIS5	WFC3/UVIS	2	14-Sep-2022 16:02:26.0	yes

12 Total Orbits Used

ABSTRACT

The recently discovered large long-period comet C/2014 UN271 has been observed to be active as far away as ~24 au. The cause of its activity is unclear because this is beyond the heliocentric distance at which many common cometary activity-driving volatiles significantly begin to sublimate. We, therefore, propose to use six orbits of HST time over three visits to make high-resolution color maps of the coma of C/2014 UN271 determining its coma-centric color slope testing the presence of icy grains in its coma and to constrain the ejection velocity of the dust. Revealing the presence or lack of ice grains as the comet is inbound into the inner Solar System would provide direct observational constraints on whether its activity mechanism is driven by hypervolatiles. Determining the ejection velocity of the dust will provide independent constraints on the activity mechanism. In addition to determining the color map of C/2014 UN271, our observations will have legacy value for future interpretations of one of the few known large long-period comets, volatile content and evolution as it approaches the Solar System.

OBSERVING DESCRIPTION

We request a total of three visits, each consisting of two consecutive orbits to constrain the nucleus size and characterize the coma of C/2014 UN271 with WFC3/UVIS. We will acquire images in three wideband filters (F475X, F606W, and F814W) to image the distribution of dust and ice in the coma. The combination of these three filters allows us to use the dust color between 475 -- 814 nm to compare the gas and ice fraction, dust composition, and particle size in the ambient coma.

We will disable the gyro bias update for all orbits because we only require two consecutive orbits in each visit, and we do not require extreme pointing accuracy with the use of the full 40 arcsec field of view of UVIS2-C1K1C-SUB. This will result in an increase of 5-6 min of extra exposure time in each orbit.

The three visits will occur as follows:

- 1.) It is crucial for our science goals that the first visit should occur as soon as schedulable before the end of December 2021/early January 2022 in order to provide an initial characterization of the coma of UN271 and to observe it at the maximum orbital plane angle when the Earth is ~3 degrees above the orbital plane of the comet.

Observing the comet at this maximum orbital plane angle during the first visit will allow for a stereoscopic view of the comet crucial for our science goals when combined with observations taken at the minimum orbital plane angle in visit 3.

2.) The second visit of these observations should be carried out in late 2022 March/early 2022 April in order to observe UN271 as the Earth crosses its orbital plane with an angle of ~ 0 degrees.

3.) The third visit of these observations should be carried out in mid-2022 July in order to observe UN271 when the Earth is ~ -3 degrees below the orbital plane of the comet.

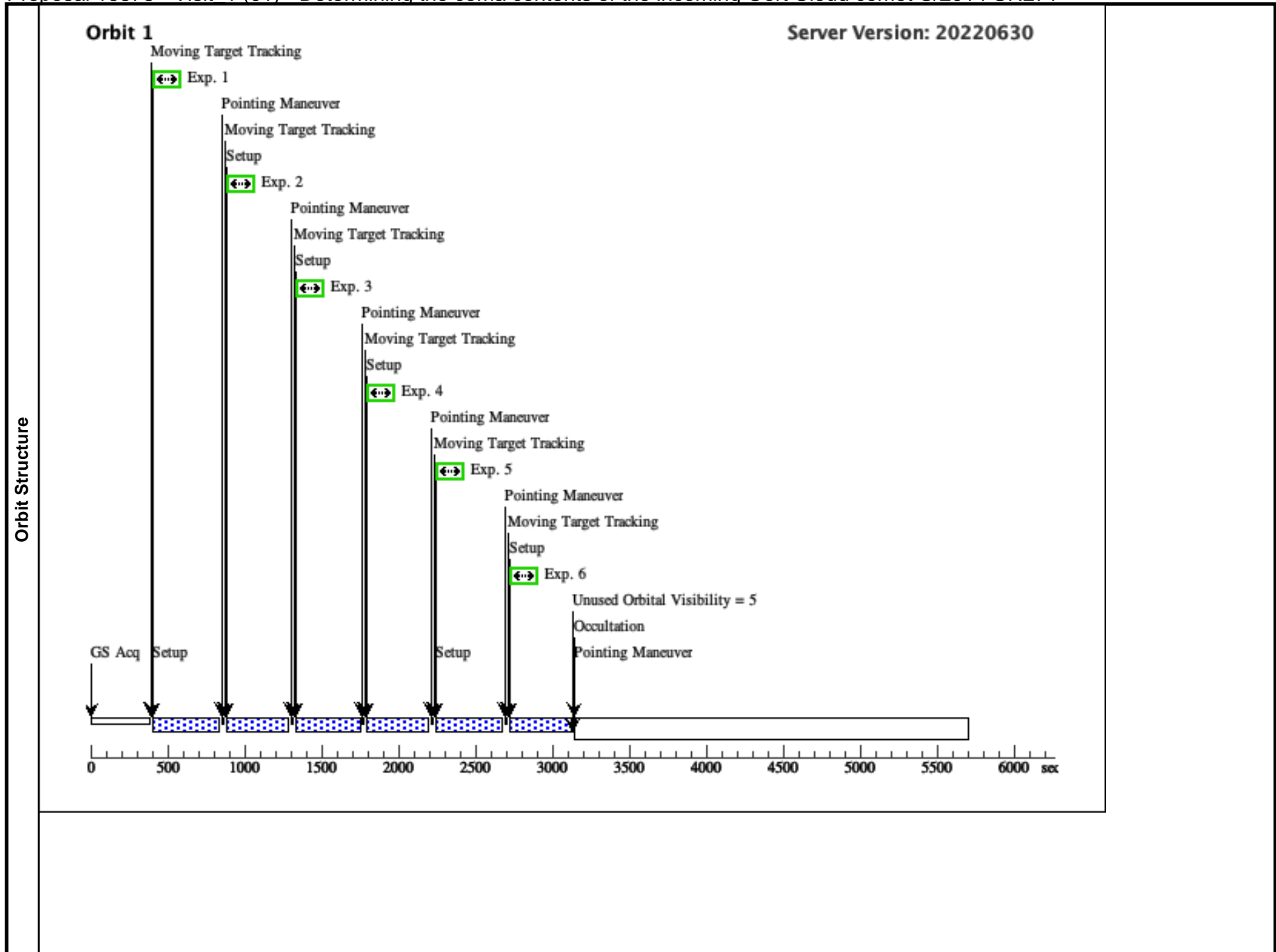
Proposal 16878 - Visit 1 (01) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

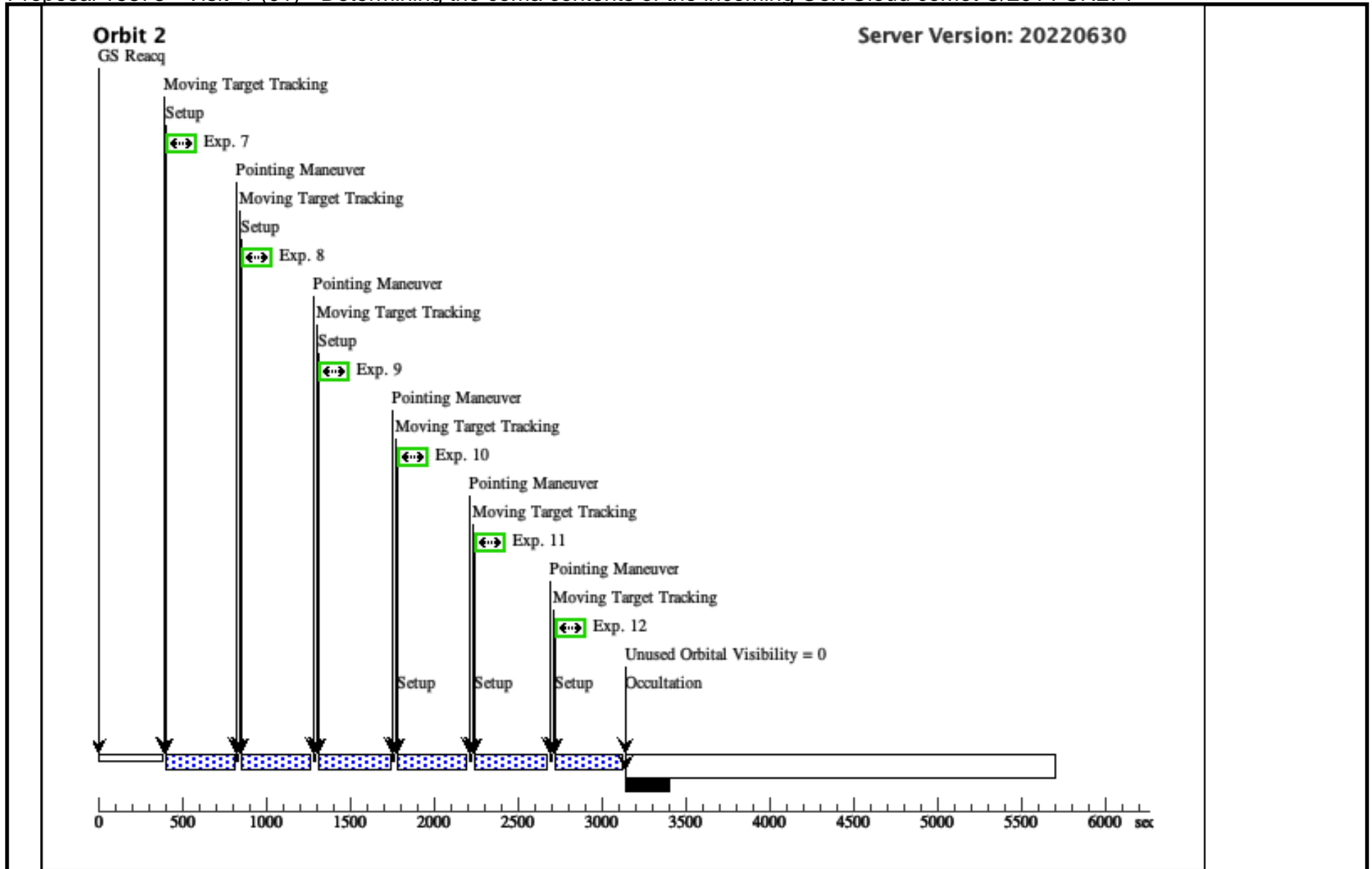
Wed Sep 14 20:02:27 GMT 2022

Visit	<p>Proposal 16878, Visit_1 (01), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 06-JAN-2022:18:00:00 AND 07-JAN-2022:02:00:00; BETWEEN 07-JAN-2021:15:00:00 AND 09-JAN-2021:06:00:00; BETWEEN 09-JAN-2022:20:00:00 AND 12-JAN-2022:00:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: Please schedule this visit to occur as early as possible. It is crucial for our science goals that these observations occur as soon as schedulable in order to observe UN271 at the maximum orbital plane angle.</i></p>						
	Diagnostics	<p>(Exposure 1 (Sequence 1-6 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Sequence 1-6 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Sequence 1-6 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 4 (Sequence 1-6 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 5 (Sequence 1-6 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 6 (Sequence 1-6 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 7-12 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 7-12 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 7-12 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 7-12 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 7-12 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 12 (Sequence 7-12 Non-Int in Visit_1 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window
		(1)	C2014UN271	TYPE=COMET,Q=10.953467758406 89,E=0.9995433744217906,I=95.5670 9024101407 ,O=190.1002771851635,W=326.26734 9724131,T=24-JAN- 2031:00:22:52,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=11-APR- 2017:00:00:00,EpochTimeScale=TDB			
<p><i>Comments: Description=C2014_UN271</i></p> <p><i>Extended=YES</i></p>							

Proposal 16878 - Visit 1 (01) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1666876)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.1,0.1	Sequence 1-6 Non-Int in Visit_1 (01)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	2	(1666876)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG -0.1,0.1	Sequence 1-6 Non-Int in Visit_1 (01)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	3	(1666875)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit_1 (01)	240 Secs (323 Secs) [==>323.0 Secs]	[1]
	4	(1666875)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,-0.2	Sequence 1-6 Non-Int in Visit_1 (01)	240 Secs (323 Secs) [==>323.0 Secs]	[1]
	5	(1666871)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.2,0.1	Sequence 1-6 Non-Int in Visit_1 (01)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	6	(1666871)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.5,0.3	Sequence 1-6 Non-Int in Visit_1 (01)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	7	(1666871)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,0.3	Sequence 7-12 Non-Int in Visit_1 (01)	240 Secs (330 Secs) [==>330.0 Secs]	[2]
	8	(1666871)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,-0.3	Sequence 7-12 Non-Int in Visit_1 (01)	240 Secs (330 Secs) [==>330.0 Secs]	[2]
	9	(1666875)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG -0.4,0.4	Sequence 7-12 Non-Int in Visit_1 (01)	240 Secs (330 Secs) [==>330.0 Secs]	[2]
	10	(1666875)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.4,-0.2	Sequence 7-12 Non-Int in Visit_1 (01)	240 Secs (330 Secs) [==>330.0 Secs]	[2]
	11	(1666876)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.4,-0.4	Sequence 7-12 Non-Int in Visit_1 (01)	240 Secs (330 Secs) [==>330.0 Secs]	[2]
12	(1666876)	(1) C2014UN271	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.3,-0.5	Sequence 7-12 Non-Int in Visit_1 (01)	240 Secs (330 Secs) [==>330.0 Secs]	[2]	





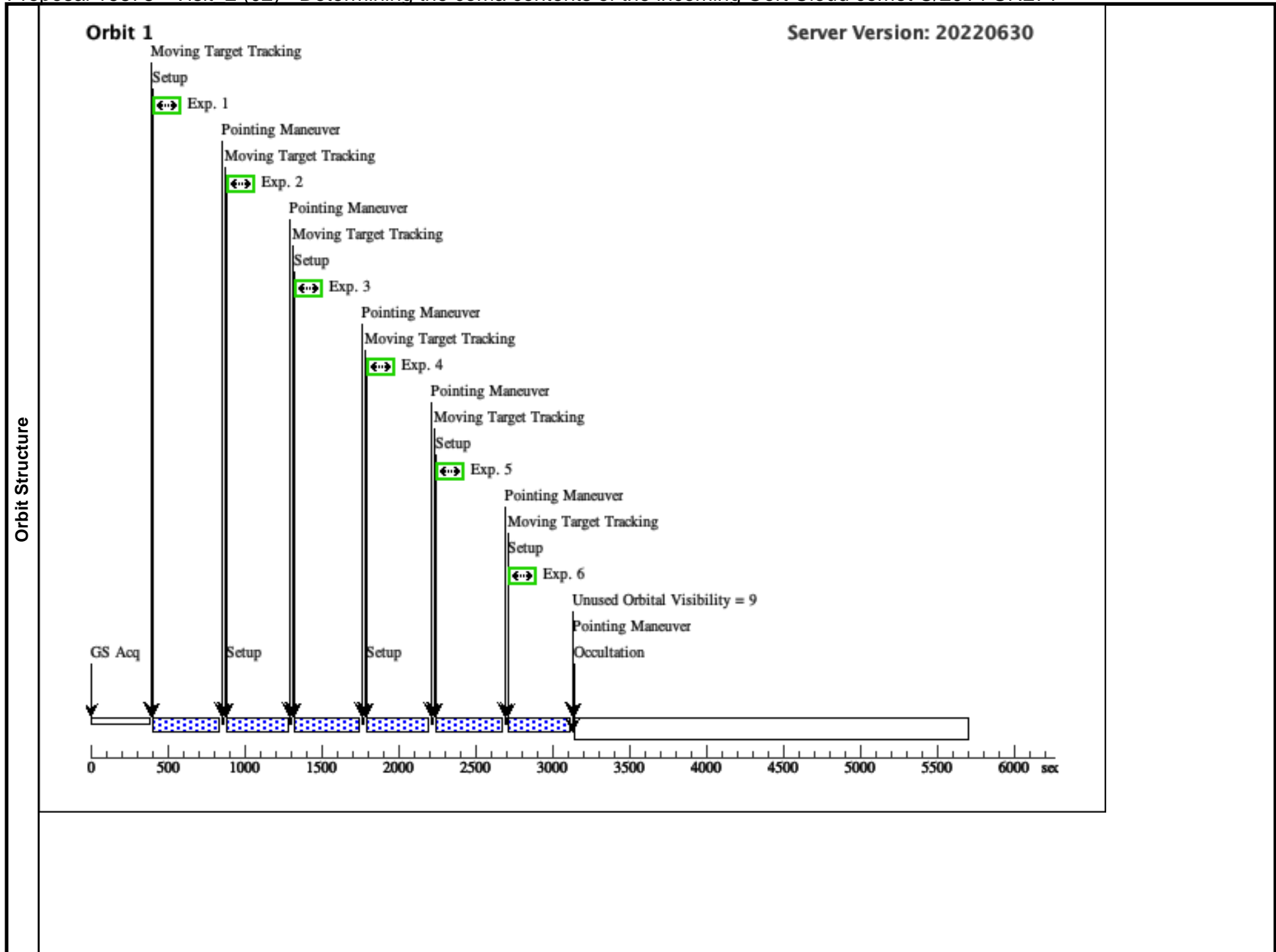
Proposal 16878 - Visit 2 (02) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

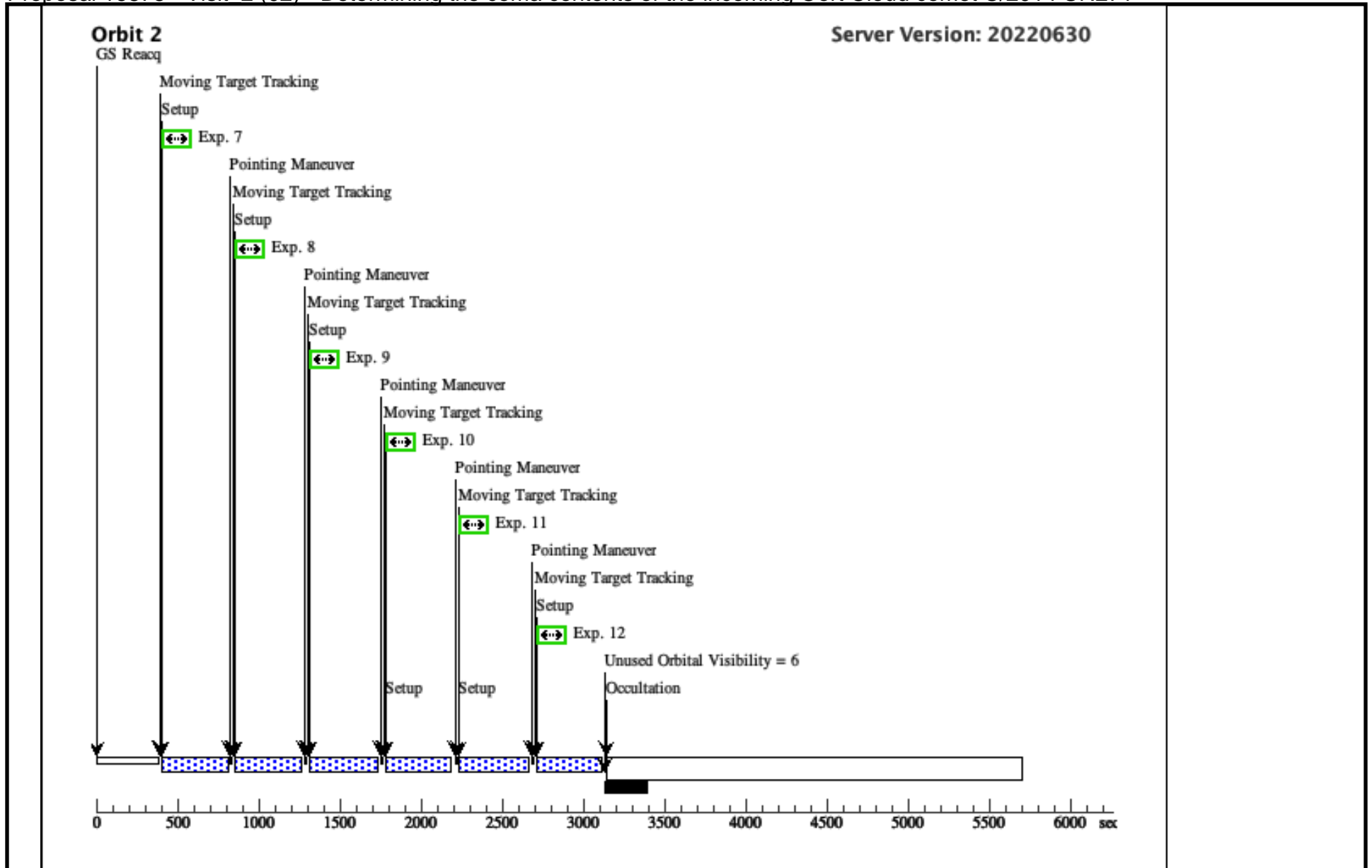
Wed Sep 14 20:02:27 GMT 2022

Visit	<p>Proposal 16878, Visit_2 (02), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 28-MAR-2022:00:00:00 AND 28-MAR-2022:12:00:00; BETWEEN 29-MAR-2022:06:00:00 AND 31-MAR-2022:18:00:00; BETWEEN 01-APR-2022:12:00:00 AND 01-APR-2022:18:00:00; BETWEEN 02-APR-2022:06:00:00 AND 02-APR-2022:18:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: Please schedule as close as possible to between Mar 28, 2022 - Apr 2, 2022 when the planetary angle is ~0 degrees. Observing the comet at a planetary angle of ~0 degrees is crucial for our science goals.</i></p>						
	<p>(Exposure 1 (Sequence 1-6 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Sequence 1-6 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Sequence 1-6 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 4 (Sequence 1-6 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 5 (Sequence 1-6 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 6 (Sequence 1-6 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 7-12 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 7-12 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 7-12 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 7-12 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 7-12 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 12 (Sequence 7-12 Non-Int in Visit_2 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>						
Diagnostics							
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(2)	C2014UN271-VIS2	TYPE=COMET,Q=10.953182848658 56,E=0.9995087041892023,I=95.5667 2692980267 ,O=190.0998787400041,W=326.26983 43871605,T=24-JAN- 2031:03:03:56,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=20-APR- 2017:00:00:00,EpochTimeScale=TDB				
<p><i>Comments: Description=C2014_UN271</i></p> <p><i>Extended=YES</i></p>							

Proposal 16878 - Visit 2 (02) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1666876)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.1,0.1	Sequence 1-6 Non-Int in Visit_2 (02)	240 Secs (323 Secs) [==>323.0 Secs]	[1]
	2	(1666876)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG -0.1,0.1	Sequence 1-6 Non-Int in Visit_2 (02)	240 Secs (323 Secs) [==>323.0 Secs]	[1]
	3	(1666875)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit_2 (02)	240 Secs (323 Secs) [==>323.0 Secs]	[1]
	4	(1666875)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,-0.2	Sequence 1-6 Non-Int in Visit_2 (02)	240 Secs (323 Secs) [==>323.0 Secs]	[1]
	5	(1666871)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.2,0.1	Sequence 1-6 Non-Int in Visit_2 (02)	240 Secs (323 Secs) [==>323.0 Secs]	[1]
	6	(1666871)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.5,0.3	Sequence 1-6 Non-Int in Visit_2 (02)	240 Secs (323 Secs) [==>323.0 Secs]	[1]
	7	(1666871)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,0.3	Sequence 7-12 Non-Int in Visit_2 (02)	240 Secs (329 Secs) [==>329.0 Secs]	[2]
	8	(1666871)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,-0.3	Sequence 7-12 Non-Int in Visit_2 (02)	240 Secs (329 Secs) [==>329.0 Secs]	[2]
	9	(1666875)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG -0.4,0.4	Sequence 7-12 Non-Int in Visit_2 (02)	240 Secs (329 Secs) [==>329.0 Secs]	[2]
	10	(1666875)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.4,-0.2	Sequence 7-12 Non-Int in Visit_2 (02)	240 Secs (329 Secs) [==>329.0 Secs]	[2]
	11	(1666876)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.4,-0.4	Sequence 7-12 Non-Int in Visit_2 (02)	240 Secs (329 Secs) [==>329.0 Secs]	[2]
12	(1666876)	(2) C2014UN271-VI S2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.3,-0.5	Sequence 7-12 Non-Int in Visit_2 (02)	240 Secs (329 Secs) [==>329.0 Secs]	[2]	





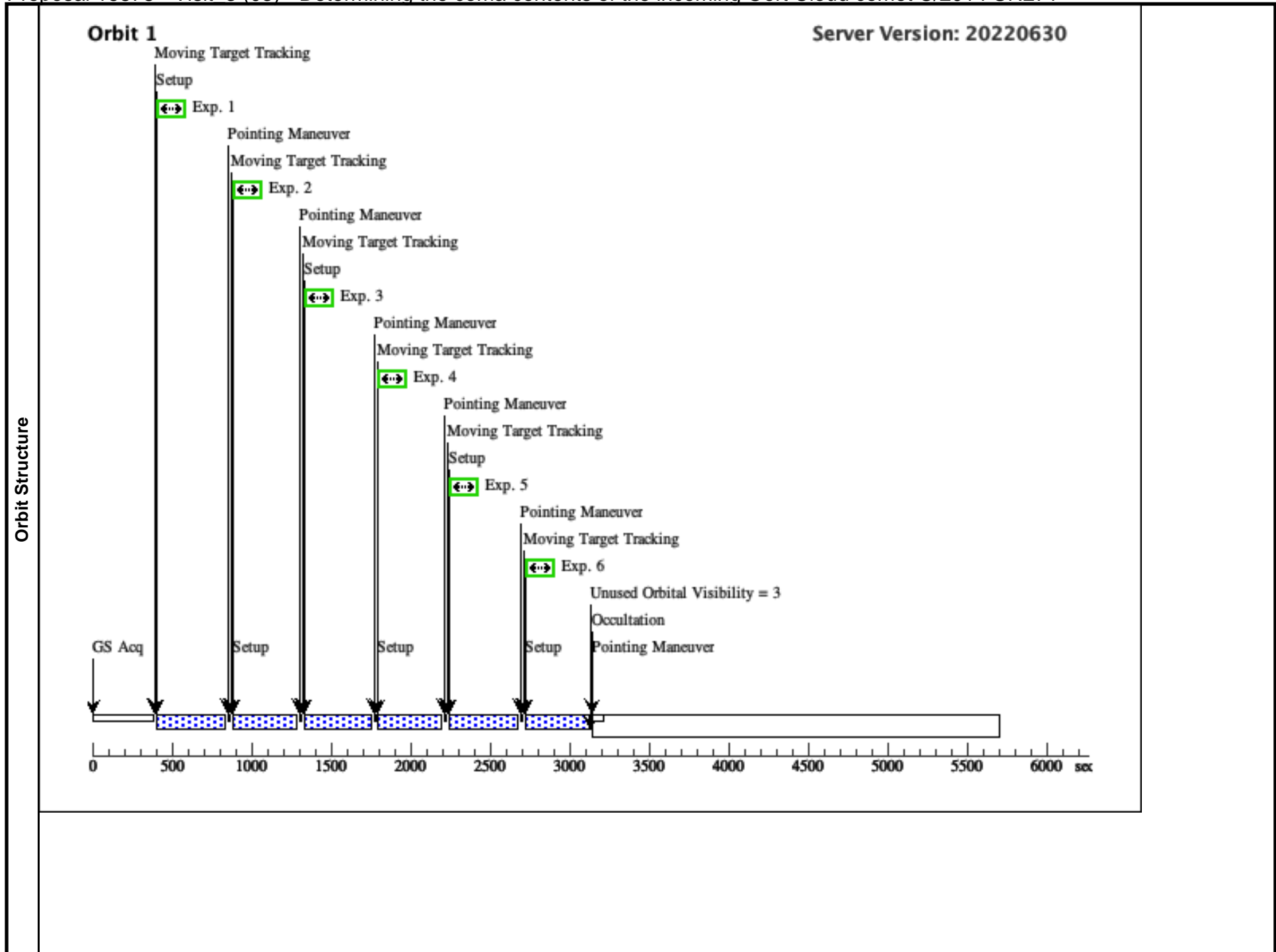
Proposal 16878 - Visit 3 (03) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

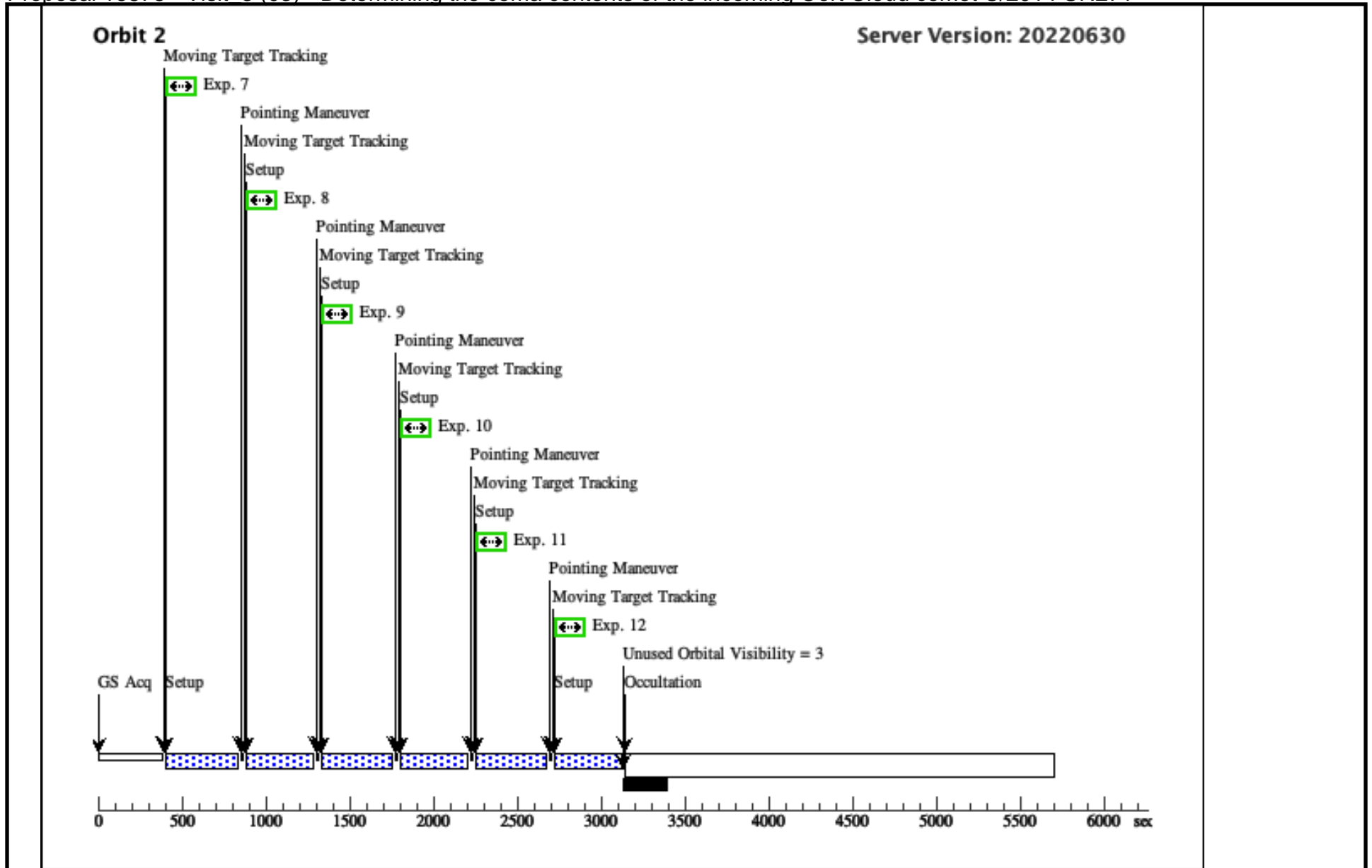
Wed Sep 14 20:02:27 GMT 2022

Visit	<p>Proposal 16878, Visit_3 (03), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 08-JUL-2022:20:00:00 AND 09-JUL-2022:04:00:00; BETWEEN 09-JUL-2022:20:00:00 AND 10-JUL-2022:04:00:00; BETWEEN 12-JUL-2022:08:00:00 AND 12-JUL-2022:16:00:00; BETWEEN 13-JUL-2022:04:00:00 AND 14-JUL-2022:04:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p>					
	<p>(Exposure 1 (Sequence 1-6 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Sequence 1-6 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Sequence 1-6 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 4 (Sequence 1-6 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 5 (Sequence 1-6 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 6 (Sequence 1-6 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 7-12 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 7-12 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 7-12 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 7-12 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 7-12 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 12 (Sequence 7-12 Non-Int in Visit_3 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
Diagnostics						
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window
	(3)	C2014UN271-VIS3	TYPE=COMET,Q=10.953182848658 56,E=0.9995087041892023,I=95.5667 2692980267 ,O=190.0998787400041,W=326.26983 43871605,T=24-JAN- 2031:03:03:56,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=20-APR- 2017:00:00:00,EpochTimeScale=TDB			
<p><i>Comments: Description=C2014_UN271</i></p> <p><i>Extended=YES</i></p>						

Proposal 16878 - Visit 3 (03) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1666876)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.1,0.1	Sequence 1-6 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	2	(1666876)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG -0.1,0.1	Sequence 1-6 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	3	(1666875)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	4	(1666875)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,-0.2	Sequence 1-6 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	5	(1666871)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.2,0.1	Sequence 1-6 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	6	(1666871)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.5,0.3	Sequence 1-6 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	7	(1666871)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,0.3; NEW OBSET FULL ACQ	Sequence 7-12 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
	8	(1666871)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,-0.3	Sequence 7-12 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
	9	(1666875)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG -0.4,0.4	Sequence 7-12 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
	10	(1666875)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.4,-0.2	Sequence 7-12 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
	11	(1666876)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.4,-0.4	Sequence 7-12 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
12	(1666876)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.3,-0.5	Sequence 7-12 Non-Int in Visit_3 (03)	240 Secs (324 Secs) [==>324.0 Secs]	[2]	





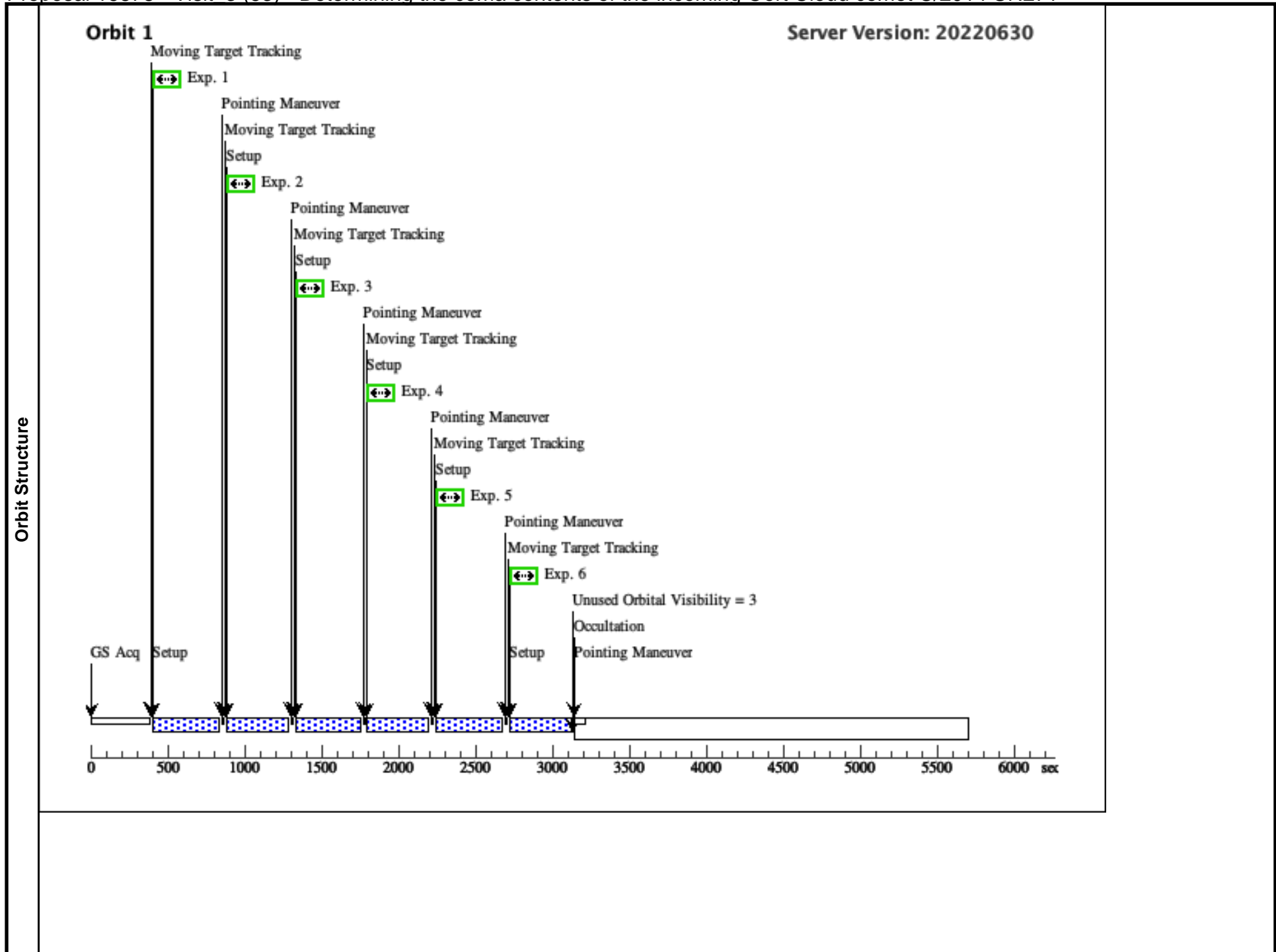
Proposal 16878 - Visit 3 (53) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

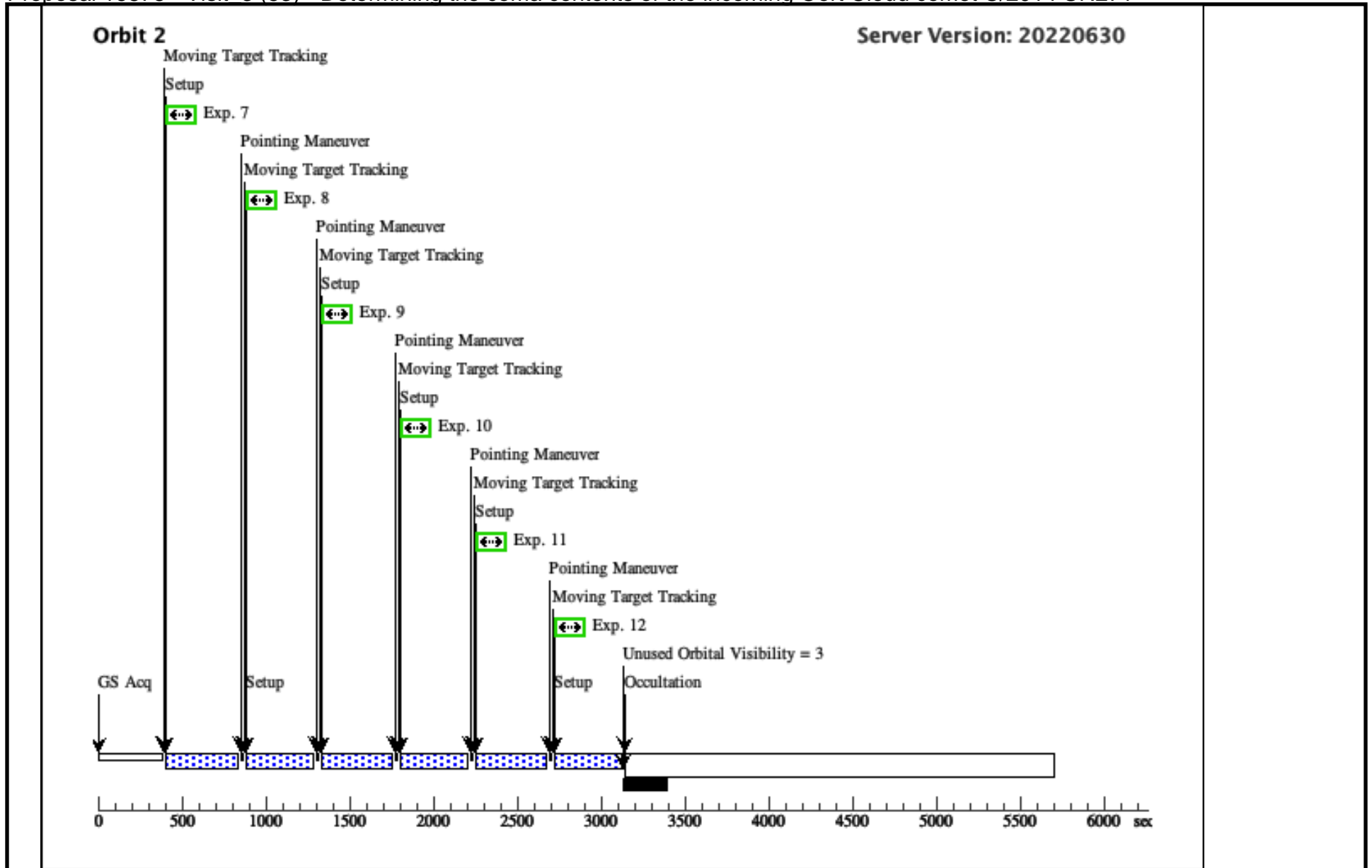
Wed Sep 14 20:02:28 GMT 2022

Visit	<p>Proposal 16878, Visit_3 (53), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 24-JUL-2022:00:00:00 AND 24-JUL-2022:08:00:00; BETWEEN 25-JUL-2022:20:00:00 AND 26-JUL-2022:00:00:00; BETWEEN 26-JUL-2022:14:00:00 AND 26-JUL-2022:18:00:00; BETWEEN 27-JUL-2022:04:00:00 AND 28-JUL-2022:04:00:00; BETWEEN 28-JUL-2022:16:00:00 AND 29-JUL-2022:20:00:00; BETWEEN 30-JUL-2022:00:00:00 AND 30-JUL-2022:12:00:00; BETWEEN 30-JUL-2022:20:00:00 AND 31-JUL-2022:02:00:00; BETWEEN 31-JUL-2022:16:00:00 AND 31-JUL-2022:22:00:00; BETWEEN 01-AUG-2022:04:00:00 AND 01-AUG-2022:08:00:00; BETWEEN 01-AUG-2022:16:00:00 AND 01-AUG-2022:19:00:00; BETWEEN 02-AUG-2022:04:00:00 AND 03-AUG-2022:16:00:00; BETWEEN 04-AUG-2022:04:00:00 AND 04-AUG-2022:18:00:00; BETWEEN 05-AUG-2022:16:00:00 AND 06-AUG-2022:00:00:00; BETWEEN 06-AUG-2022:03:00:00 AND 06-AUG-2022:07:00:00; BETWEEN 06-AUG-2022:16:00:00 AND 07-AUG-2022:10:00:00; BETWEEN 07-AUG-2022:17:00:00 AND 08-AUG-2022:03:00:00; BETWEEN 08-AUG-2022:09:00:00 AND 08-AUG-2022:13:00:00; BETWEEN 08-AUG-2022:16:00:00 AND 08-AUG-2022:19:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p>							
	Diagnostics	<p>(Exposure 1 (Sequence 1-6 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Sequence 1-6 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Sequence 1-6 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 4 (Sequence 1-6 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 5 (Sequence 1-6 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 6 (Sequence 1-6 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 7-12 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 7-12 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 7-12 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 7-12 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 7-12 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 12 (Sequence 7-12 Non-Int in Visit_3 (53))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>						
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
		(3)	C2014UN271-VIS3	TYPE=COMET,Q=10.953182848658 56,E=0.9995087041892023,I=95.5667 2692980267 .O=190.0998787400041,W=326.26983 43871605,T=24-JAN- 2031:03:03:56,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=20-APR- 2017:00:00:00,EpochTimeScale=TDB				
<p><i>Comments: Description=C2014_UN271</i></p> <p><i>Extended=YES</i></p>								

Proposal 16878 - Visit 3 (53) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1666876)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.1,0.1	Sequence 1-6 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	2	(1666876)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG -0.1,0.1	Sequence 1-6 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	3	(1666875)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	4	(1666875)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,-0.2	Sequence 1-6 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	5	(1666871)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.2,0.1	Sequence 1-6 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	6	(1666871)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.5,0.3	Sequence 1-6 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	7	(1666871)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,0.3; NEW OBSET FULL ACQ	Sequence 7-12 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
	8	(1666871)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,-0.3	Sequence 7-12 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
	9	(1666875)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG -0.4,0.4	Sequence 7-12 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
	10	(1666875)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.4,-0.2	Sequence 7-12 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
	11	(1666876)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.4,-0.4	Sequence 7-12 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
12	(1666876)	(3) C2014UN271-VI S3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.3,-0.5	Sequence 7-12 Non-Int in Visit_3 (53)	240 Secs (324 Secs) [=>324.0 Secs]	[2]	





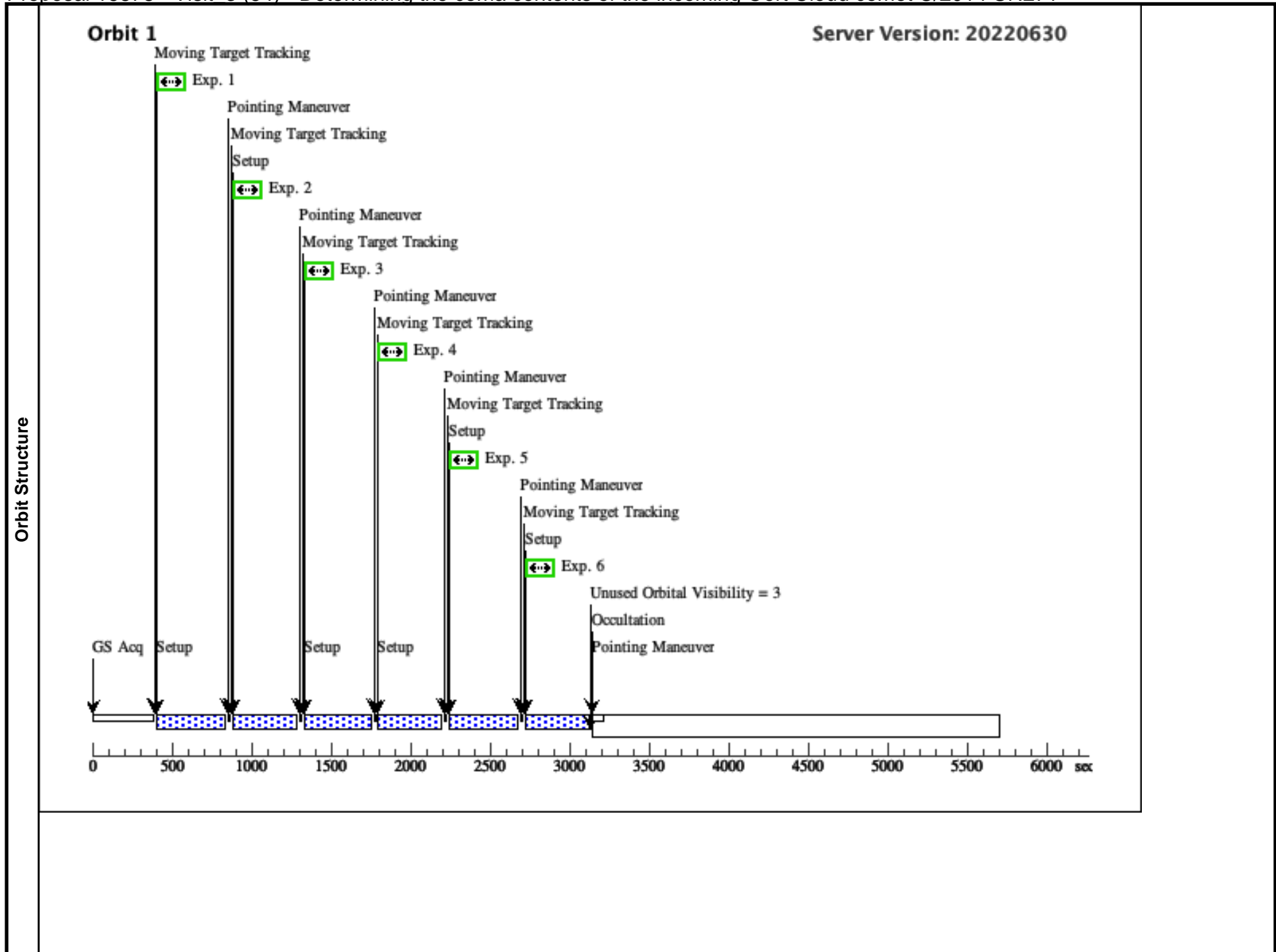
Proposal 16878 - Visit 3 (54) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

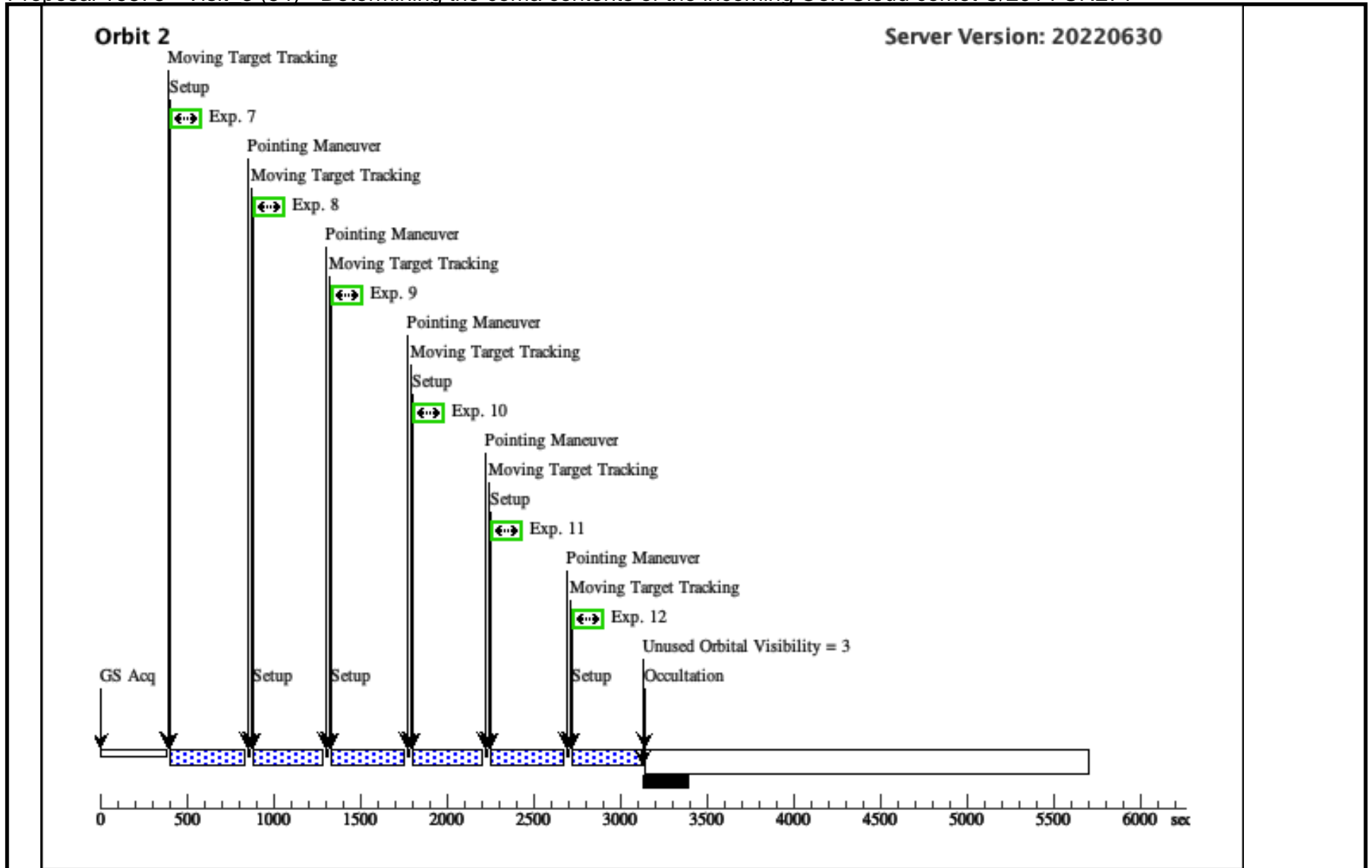
Wed Sep 14 20:02:28 GMT 2022

Visit	<p>Proposal 16878, Visit_3 (54), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 22-AUG-2022:08:00:00 AND 22-AUG-2022:16:00:00; BETWEEN 23-AUG-2022:02:00:00 AND 23-AUG-2022:05:00:00; BETWEEN 23-AUG-2022:10:00:00 AND 23-AUG-2022:14:00:00; BETWEEN 23-AUG-2022:21:00:00 AND 24-AUG-2022:09:00:00; BETWEEN 24-AUG-2022:21:00:00 AND 25-AUG-2022:15:00:00; BETWEEN 26-AUG-2022:01:00:00 AND 27-AUG-2022:09:00:00; BETWEEN 27-AUG-2022:20:00:00 AND 28-AUG-2022:00:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: HOPR repeat of visit 53</i></p>																				
	Diagnostics	<p>(Exposure 1 (Sequence 1-6 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Sequence 1-6 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Sequence 1-6 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 4 (Sequence 1-6 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 5 (Sequence 1-6 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 6 (Sequence 1-6 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 7-12 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 7-12 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 7-12 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 7-12 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 7-12 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 12 (Sequence 7-12 Non-Int in Visit_3 (54))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																			
Solar System Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>C2014UN271-VIS4</td> <td>TYPE=COMET,Q=10.952957511975 11,E=0.9994828117404172,I=95.5664 4332151737 ,O=190.0995672116537,W=326.27167 62039015,T=24-JAN- 2031:04:49:22,TTTimeScale=TDB,EQ UINOX=J2000,EPOCH=26-APR- 2017:00:00:00,EpochTimeScale=TDB</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=C2014_UN271</i> <i>Extended=YES</i></p>						#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(4)	C2014UN271-VIS4	TYPE=COMET,Q=10.952957511975 11,E=0.9994828117404172,I=95.5664 4332151737 ,O=190.0995672116537,W=326.27167 62039015,T=24-JAN- 2031:04:49:22,TTTimeScale=TDB,EQ UINOX=J2000,EPOCH=26-APR- 2017:00:00:00,EpochTimeScale=TDB				EARTH
		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(4)		C2014UN271-VIS4	TYPE=COMET,Q=10.952957511975 11,E=0.9994828117404172,I=95.5664 4332151737 ,O=190.0995672116537,W=326.27167 62039015,T=24-JAN- 2031:04:49:22,TTTimeScale=TDB,EQ UINOX=J2000,EPOCH=26-APR- 2017:00:00:00,EpochTimeScale=TDB				EARTH														

Proposal 16878 - Visit 3 (54) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1666876)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.1,0.1	Sequence 1-6 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	2	(1666876)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG -0.1,0.1	Sequence 1-6 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	3	(1666875)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	4	(1666875)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,-0.2	Sequence 1-6 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	5	(1666871)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.2,0.1	Sequence 1-6 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	6	(1666871)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.5,0.3	Sequence 1-6 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[1]
	7	(1666871)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,0.3; NEW OBSET FULL ACQ	Sequence 7-12 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
	8	(1666871)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,-0.3	Sequence 7-12 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
	9	(1666875)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG -0.4,0.4	Sequence 7-12 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
	10	(1666875)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.4,-0.2	Sequence 7-12 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
	11	(1666876)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.4,-0.4	Sequence 7-12 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[2]
12	(1666876)	(4) C2014UN271-VI S4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.3,-0.5	Sequence 7-12 Non-Int in Visit_3 (54)	240 Secs (324 Secs) [==>324.0 Secs]	[2]	





Proposal 16878 - Visit 3 (55) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

Wed Sep 14 20:02:28 GMT 2022

Visit	<p>Proposal 16878, Visit_3 (55), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 17-SEP-2022:18:00:00 AND 19-SEP-2022:03:00:00; BETWEEN 19-SEP-2022:12:00:00 AND 20-SEP-2022:20:00:00; BETWEEN 21-SEP-2022:19:00:00 AND 22-SEP-2022:00:00:00; BETWEEN 22-SEP-2022:08:00:00 AND 22-SEP-2022:13:00:00; BETWEEN 23-SEP-2022:00:00:00 AND 23-SEP-2022:20:00:00; BETWEEN 24-SEP-2022:06:00:00 AND 24-SEP-2022:18:00:00; BETWEEN 25-SEP-2022:00:00:00 AND 25-SEP-2022:08:00:00; BETWEEN 26-SEP-2022:04:00:00 AND 26-SEP-2022:12:00:00; BETWEEN 27-SEP-2022:00:00:00 AND 27-SEP-2022:12:00:00; BETWEEN 28-SEP-2022:05:00:00 AND 28-SEP-2022:12:00:00; BETWEEN 29-SEP-2022:00:00:00 AND 29-SEP-2022:08:00:00; BETWEEN 30-SEP-2022:00:00:00 AND 01-OCT-2022:02:00:00; BETWEEN 01-OCT-2022:12:00:00 AND 02-OCT-2022:00:00:00; BETWEEN 03-OCT-2022:09:00:00 AND 04-OCT-2022:08:00:00; BETWEEN 04-OCT-2022:15:00:00 AND 05-OCT-2022:03:00:00; BETWEEN 06-OCT-2022:02:00:00 AND 07-OCT-2022:04:00:00; BETWEEN 07-OCT-2022:15:00:00 AND 07-OCT-2022:22:00:00; BETWEEN 09-OCT-2022:00:00:00 AND 09-OCT-2022:08:00:00; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: HOPR repeat of visit 53</i></p>																				
	<p>(Exposure 1 (Sequence 1-6 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Sequence 1-6 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Sequence 1-6 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 4 (Sequence 1-6 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 5 (Sequence 1-6 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 6 (Sequence 1-6 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 7-12 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 7-12 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 7-12 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 7-12 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 7-12 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 12 (Sequence 7-12 Non-Int in Visit_3 (55))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																				
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>C2014UN271-VIS5</td> <td>TYPE=COMET,Q=10.952376156197 2,E=0.9994164225765602,I=95.56554 347288741 .O=190.0985731172782,W=326.27645 28151808,T=24-JAN- 2031:09:30:10,TTIMEscale=TDB,EQ UINOX=J2000,EPOCH=13-MAY- 2017:00:00:00,EpochTimeScale=TDB</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=C2014_UN271 Extended=YES</i></p>							#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(5)	C2014UN271-VIS5	TYPE=COMET,Q=10.952376156197 2,E=0.9994164225765602,I=95.56554 347288741 .O=190.0985731172782,W=326.27645 28151808,T=24-JAN- 2031:09:30:10,TTIMEscale=TDB,EQ UINOX=J2000,EPOCH=13-MAY- 2017:00:00:00,EpochTimeScale=TDB				EARTH
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Proposal 16878 - Visit 3 (55) - Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1666876)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.1,0.1	Sequence 1-6 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	2	(1666876)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG -0.1,0.1	Sequence 1-6 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	3	(1666875)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,0.2	Sequence 1-6 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	4	(1666875)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.2,-0.2	Sequence 1-6 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	5	(1666871)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.2,0.1	Sequence 1-6 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	6	(1666871)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG -0.5,0.3	Sequence 1-6 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[1]
	7	(1666871)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,0.3; NEW OBSET FULL ACQ	Sequence 7-12 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
	8	(1666871)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=5	POS TARG 0.3,-0.3	Sequence 7-12 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
	9	(1666875)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG -0.4,0.4	Sequence 7-12 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
	10	(1666875)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475X	FLASH=4	POS TARG 0.4,-0.2	Sequence 7-12 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
	11	(1666876)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.4,-0.4	Sequence 7-12 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[2]
12	(1666876)	(5) C2014UN271-VI S5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=2	POS TARG 0.3,-0.5	Sequence 7-12 Non-Int in Visit_3 (55)	240 Secs (324 Secs) [=>324.0 Secs]	[2]	

